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## Patent Abstracts of Japan

PUBLICATION NUMBER : 2000152646  
PUBLICATION DATE : 30-05-00

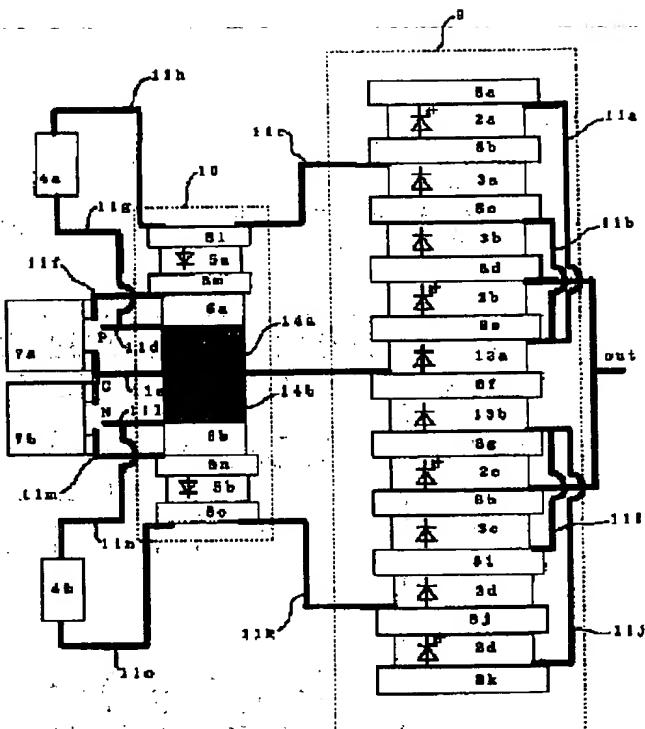
APPLICATION DATE : 16-11-98  
APPLICATION NUMBER : 10325320

APPLICANT : MITSUBISHI ELECTRIC CORP;

**INVENTOR :** KURAKI MAKOTO;

INT.CL. : H02M 7/48 H02M 7/515 H02M 7/5387

**TITLE : INVERTER**



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide an inverter which simultaneously realizes large capacity and high efficiency with use of GCT.

**SOLUTION:** A pressure welding structure is formed by tightening first to fourth GCTs 2a to 2d, first to fourth free wheel diodes 3a to 3d and first to second clamp diodes 13a, 13b with cooling fins 8a to 8o, provided among these elements, and a copper bus bar 11 is used for connection between the cathode side of a first GCT2a of the pressure welding structure and the cathode side of the first clamp diode 13a, between the cathode of the second free wheel diode 3b and the cathode side of the first clamp diode 13a, between the anode side of a fourth GCT2d and the anode side of the second clamp diode 13b and between the anode side of the third free wheel diode 3c and the anode side of the second clamp diode 13b.

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